

Handheld, Manpack, and Small-Form-Fit (HMS) Spectrum Supportability Overview



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HMS Mission

- Joint Force tactical edge networking radios
- Warfighter connections to the Global Information Grid
- Best value to the Department of Defense through structured competition intended to leverage industry partners to continually provide low cost, innovative, interoperable and integrated technology

Product Lines

Rifleman Radio AN/PRC-154

One Channel
SRW - Type 2
NSA certification
commercial GPS



Manpack AN/PRC-155

Mounted and dismounted Two
Channel radio initially running SRW,
SINGARS, UHF SATCOM waveforms
with Type 1 NSA certification and
SAASM GPS.



MUOS Appliqué

Add-on applique allows
Manpack to serve as
MUOS satellite ground
terminal



Manpack with MUOS Appliqué and Antenna

Nett Warrior Radio

Type 1 NSA certified
single-channel SRW
radio.



SFF-B

Two Channel SRW/SINGARS
NSA Type 1 certified radio for
airborne platforms.



SFF-D

One Channel radio with
SRW.



AN/PRC-154/CR1 Spectrum Certification & Host Nation Spectrum Supportability

- ❑ Submitted DD 1494 Stage 4 Host Nation Applications for EUCOM, PACOM and CENTCOM to Army Spectrum Management Office in May 2011
- ❑ Received supportability comments from:
 - ✓ PACOM - Japan, Australia*, Philippines*
 - ✓ *Temp assignments only
 - ✓ EUCOM - Canada, Belgium, Germany, Spain, Italy*
 - ✓ *Temp assignments via NATO
 - ✓ NATO
 - ✓ CENTCOM






PM HMS is working with the US Authorities in PACOM to obtain frequency assignments

AN/PRC-155/CR2 Spectrum Certification & Host Nation Spectrum Supportability

- ☐ Submitted DD 1494 Stage 3 Applications for EUCOM, PACOM and CENTCOM to Army Spectrum Management Office in June 2011
- ☐ Received supportability comments from:
 - ✓ PACOM - Japan, Australia*, Philippines*
 - ✓ *Temp assignments only
 - ✓ EUCOM - Canada, Belgium, France, Spain, UK
 - ✓ NATO
 - ✓ CENTCOM

PM HMS is working with the US Authorities in PACOM to obtain frequency assignments

JTRS HMS Spectrum Certification Summary

| DD1494 Status Matrix | | JTRS HMS Form Factors | | | | |
|--------------------------------------|---------|---|---|---|--|---|
| | |  AN/PRC-154(V)1 |  SFF-A RT-1935/G |  SFF-D RT-1948/D |  SFF-B RT-1953(C)/T |  AN/PRC-155(V)1 |
| Nomenclature | | | | | | |
| No. Channels | | 1 | 1 | 1 | 2 | 2 |
| JF-12 Serial No. | | 9678/2 | | | 9726 | |
| NTIA DD-1494 Certification Status | | Stage-4 Approved | | | Stage-3 Approved | |
| Host Nation Supportability | CENTCOM | Stage-4 Supportable Comments received | | | Stage-3 Supportable Comments received | |
| | EUCOM | Stage-4 Supportable Comments received (on going) | | | Stage-3 Supportable Comments received (on going) | |
| | PACOM | Stage-4 Supportable Comments received (on going) | | | Stage-3 Supportable Comments received (on going) | |

Conclusion

- ❑ *The Handheld, Manpack and Small Form Fit (HMS) family of Software Defined Radios are key to delivering legacy interoperability and networking capabilities to mounted and dismounted warfighters*
 - JTRS HMS Manpack and its tuning range is flexible to use authorized frequency bands
 - JTRS HMS is transforming battlefield with Net-Centric and Secure networking communications
 - Fielding of HMS Radios is ongoing
 - Request consideration for Spectrum Supportability for HMS Manpack Stage-3 DD-1494 and Rifleman Radio Stage-4 DD-1494
- ❑ Way Ahead
 - Look forward to working with each COCOM coordinating full Spectrum Supportability for all Host Nations
 - Receiving positive feedback from Host Nations (Japan, Korea etc.)